

Firm Brochure (Part 2A of Form ADV)

**Manulife Investment Management
(North America) Limited**

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This Brochure provides information about the qualifications and business practices of Manulife Investment Management (North America) Limited (Manulife IM (NA)). If you have any questions about the contents of this Brochure, please contact us at the number above. The information in this brochure has not been approved or verified by the United States Securities and Exchange Commission ("SEC") or by any state securities authority. Registration with the SEC does not imply a certain level of skill or training.

Additional information about Manulife Investment Management (North America) Limited also is available on the SEC's website at www.adviserinfo.sec.gov.

Material Changes

There are no material changes for our Brochure since the Firm's last update on March 31, 2019.

The brochure has been updated to reflect the organization's brand name change to Manulife Investment Management in May 2019, and the legal entity name change from Manulife Asset Management (NA) Limited to Manulife Investment Management (NA) Limited. Further, the names of other financial affiliates have been changed to reflect the brand updates that occurred throughout 2019.

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I. Advisory Business

Advisory Business Overview

Manulife Investment Management (North America) Limited (“we” or “Manulife IM (NA)”) is a Toronto-based corporation incorporated in January 2003 under the Canada Business Corporations Act and began commercial operations in May 2003. We also operate under the names “Manulife Investment Management.”¹

We are registered as an investment adviser under the United States Investment Advisers Act of 1940. We provide investment advisory services to non-Canadian clients, mainly affiliated U.S. registered advisers.

We are a wholly-owned subsidiary of The Manufacturers Life Insurance Company (“MLI”), a Canadian life insurance company, which in turn is a wholly owned subsidiary of Manulife Financial Corporation (“Manulife”). Manulife is a leading Canadian-based financial services group with principal operations in Asia, Canada, and the United States. For over 125 years, clients worldwide have looked to Manulife for strong, reliable, trustworthy and forward-thinking solutions for their most significant financial decisions. Its international network of employees, agents and distribution partners offers financial protection and wealth management products and services to millions of clients around the world. Manulife Financial Corporation trades as ‘MFC’ on the TSX, NYSE and PSE, and under ‘945’ on the SEHK. Manulife can be found on the Internet at www.manulife.com.

We are part of the Manulife Investment Management group of companies. Manulife Investment Management is the global asset management arm of Manulife Financial. Manulife Investment Management and its affiliates provide comprehensive asset management solutions for institutional investors and investment funds in key markets around the world. This investment expertise extends across a full range of asset classes including equity, fixed income and alternative investments such as real estate, timber, farmland, as well as asset allocation strategies. Manulife Investment Management has a network of investment offices throughout North America, Asia Pacific and Europe. As at December 31, 2019 total assets under management were approximately \$409² billion globally, of which Manulife IM (NA) managed

¹ Prior to May 2019, we operated under the name “Manulife Asset Management,” as well as John Hancock Asset Management”, “John Hancock Asset Management (North America)” and “John Hancock Asset Management a division of Manulife Asset Management (North America) Limited”. Our affiliated registered investment adviser firms may have provided investment management services, or may have marketed such services, to affiliated clients also under the “John Hancock Asset Management” name

² All information as of December 31, 2019, unless otherwise noted. AUM in USD rounded to the nearest billion. Includes assets managed by the institutional asset management arm of Manulife Investment Management on behalf of external clients, the insurance business and other affiliated businesses, as well as \$200M of unfunded committed capital for certain HCIM clients. The methodologies used to compile the total assets under management are subject to change. Information related to assets under management may not be the same as regulatory assets under management reported on Form ADV of applicable U.S. affiliates of Manulife IM.

approximately \$12.7 billion. Additional information about Manulife Investment Management can be found at www.ManulifeIM.com.

We and our affiliates provide comprehensive asset management services for institutional investors, retirement and investment funds in key markets around the world. This investment expertise extends across a full range of asset classes including equity, fixed income, balanced, index and asset allocation strategies. Our investment expertise focuses on a range of equity and fixed income strategies, as well as money market, index and asset allocation strategies and we offer supervisory services covering these strategies. We limit our investment management services to what is outlined in the client's investment policy guidelines, fund prospectus and/or statement of additional information documentation. Manulife IM (NA) may, for certain of our investment strategies, to the extent permitted by its management contracts, delegate investment discretion or trade execution services to an affiliated sub-adviser who manages all or a portion of a portfolio. Our services are delivered with the support of two service agreements:

The first is an arrangement with Manulife Investment Management Limited ("Manulife IM Limited"), a Canadian affiliate that provides investment advisory and other services to Canadian investors. Manulife IM Limited provides us with personnel, office space and equipment, including portfolio managers.

The second is a Global Trade Support Agreement relating to fixed income dealing and trade execution between several regional fixed income dealing desks situated in North America, Asia and Europe. Manulife IM (NA) affiliates participating in this agreement along with Manulife IM (NA) are Manulife Investment Management (US) LLC, Manulife Investment Management Limited, Manulife Investment Management (Europe) Limited, Manulife Investment Management (Hong Kong) Limited, and Manulife Investment Management (Singapore) Pte. Limited.

Participation in Managed Account Programs

In general, we do not participate or provide investment management services for any wrap fee and/or model programs. We do, however have one separately managed direct account, where Manulife IM (NA) contracts directly with the client to provide investment management services.

Discretionary Authority and Assets under Management

Clients can retain Manulife IM (NA) on a discretionary and/or non-discretionary basis. When we are retained on a discretionary basis, we have authority to provide continuous and regular supervisory and/or investment management services for client's account without prior consultation with the client. Pursuant to this discretionary authority, we determine which securities are purchased and sold for the account, the total amount of purchases and sales, the selection of brokers through which transactions are executed and the commissions paid in connection with these transactions, as applicable.

Manulife Investment Management

Some clients retain us on a non-discretionary basis, requiring that portfolio transactions be discussed in advance and executed at the client's direction.

As at December 31, 2019, Manulife IM (NA) managed \$12,766,853,030, of which \$12,719,858,802 was managed on a discretionary basis and \$46,994,228 on a non-discretionary basis.

II. Fees and Compensation

Fees

Subject to applicable laws and regulations, Manulife IM (NA) retains complete discretion over the fees charged to clients, as well as any changes to those fees. Fees generally are non-negotiable; however, non-standard fees may be negotiated or modified in light of a client's special circumstances, asset levels, service requirement, or other factors as determined in our sole discretion. We may agree to offer certain clients a fee schedule that is lower than that of other comparable clients in the same investment strategy or we may agree to calculate fees based on the aggregate assets of related accounts which may provide the benefit of a lower effective fee due to the combined level of assets of the related accounts. We may also choose to waive all or a portion of our negotiated fee for a given period. Finally, we may enter into a commitment with certain clients to provide services at the lowest fee available for a particular investment strategy, and this fee may be lower than that paid by other comparably situated clients. Manulife IM (NA)'s clients are generally large institutional investors or qualified purchasers, as defined in section 2(a)(51)(A) of the Investment Company Act of 1940.

Our basic fee schedule is categorized by our investment strategies. Advisory fees, as a percentage of our assets under management, generally are applied to the aggregate market value of all assets in the client's account. The fee is paid out of the advisory agreement fee and is not charged directly to the portfolios.

Billing Methods

We bill clients directly for our advisory fee. We do not directly debit fees from client accounts. Based on the subscription agreement, fees are calculated and payable either monthly or quarterly. Clients are billed in arrears based on the net asset value of units in the clients account for each calendar day or on an average over the month or quarter. Fees are not prepaid. Accounts initiated or terminated during a calendar month are charged a prorated fee. We do not have fixed termination dates in our investment management agreements; however, we generally require at least sixty (60) days written notice from the client to terminate our services.

Other Fees and Expenses

In addition to the advisory fees discussed above, clients may incur additional fee related to the services we provide. Clients will incur the fees and expenses charged by the custodian of client assets managed by us, as well as brokerage and other transaction costs associated with securities trades that we order on behalf of the assets in a client's account. Please see the "Brokerage Practices" section in this Brochure for additional information about brokerage and brokerage fees.

III. Performance Based Fees and Side by Side Management

We do not manage any accounts, from which we receive performance-based compensation, nor do we engage in any side by side management of accounts.

IV. Type of Clients

We provide advice to our affiliates, principally as sub-advisor to a number of affiliated mutual fund families that are sponsored by our affiliates, and to certain affiliated insurance companies. We also manage advisory accounts of affiliates. This includes separate account and pension assets for John Hancock Life Insurance Company (U.S.A.), separate account assets for John Hancock Life & Health Insurance Company. In addition to this, Manulife IM (NA) manages one separately managed institutional account.

Conditions for Managing Accounts

Minimum account size for institutional investors, other than investment companies generally range from \$10,000,000 to \$50,000,000, depending upon the investment objectives of the account.

Establishing a New Customer Relationship

When Manulife IM (NA) establishes a fiduciary relationship with a client, we may ask for information which will allow us to verify the identity of each client and its source of funding. We will maintain records of each client who opens an account or establishes a relationship with us in order to fulfil our requirement to assist the US Government in fighting the funding of terrorism and money laundering activities.

V. Methods of Analysis, Investment Strategies and Risk of Loss

Manulife IM (NA) provides investment supervisory services utilizing a range of equity, money market, index, as well as liability-driven and goal-based investment strategies. Therefore, we use a wide range of research tools and analyses, depending to a large extent on the particular strategy and portfolio manager. Our portfolio managers' methods include macro and micro fundamental research of companies, industries, sectors, countries, local and global markets. The methods employed may also include quantitative analysis and investment instrument research which applies security scoring methodology for different factors expected to influence investment performance and risk and establishes a ranking of all securities or instruments in the investment universe. The integration of ESG risk and opportunity analysis is an extension of our research processes and Manulife IM aspires to consider ESG factors throughout the due-diligence and decision-making process. To maximize potential performance for a given level of risk, we may use portfolio construction tools to create optimal portfolios. We may utilize advice or research provided by certain affiliated investment advisers (some of which are not registered under the Advisers Act and are located outside the U.S.) pursuant to sub-advisory agreements, inter-company agreements or other agreements with the affiliates.

We may supplement internal research with quantitative and fundamental analysis, created primarily by third parties. Primary sources include financial newspapers and magazines, industry experts, research materials prepared by others, corporate rating services, annual reports, prospectuses, financial data services, and filings with the SEC. Our investment personnel may also participate in meetings with company management, customers, suppliers and competitors. They also attend industry conferences, academic seminars and trade shows to obtain new perspectives.

We may employ any of the following for sources of information and analysis: consultants, industry and governmental authorities, experts in related fields, management consulting firms, specialists to evaluate technical developments, third party models, analysis and research, and internally generated portfolio management reports and risk metrics. We may utilize trading ideas generated by brokers or others. Trades may be executed with the broker that generated the idea, subject to best execution.

Investment Risks

The significant methods of analysis, significant strategies, and material risks, for each of our investment strategies are detailed below. With respect to all our investment strategies, investing in securities involves risk of loss that clients should be prepared to bear. The specific risks associated with each investment strategy discussed below are outlined in the discussion. A more detailed description of each risk can be found in Appendix A, "Glossary of Investment Risks."

Active Equity Strategies

Investment Objective

The portfolios seek to provide long-term capital appreciation by investing primarily in equity securities of companies located anywhere in the world. The companies are directly or indirectly engaged in or related to the metals & mining industry, with securities largely classified under one of eight GICS sub-industries: aluminum, diversified metals & mining, copper, gold, precious metals & minerals, silver, steel and coal & consumable fuels; or the companies are directly or indirectly involved in the exploration, development, production or distribution of energy, alternative energy or in related industries or sub-industries, such as Chemicals.

Principal Investment Strategies

These strategies emphasize on investing in high-quality assets and proven, capable management teams throughout the commodity cycle, producing results that have been consistent with their stated long-term approach. Long-term outperformance is believed to be the result of this consistent application of fundamental, bottom-up company analysis together with a view on the macro environment, providing investors the opportunity to capitalize on current and emerging opportunities seen occurring within resource markets. While this process involves under/overweighting certain sub-industries and/or securities based on the fundamental outlook for a commodity(ies) or company(ies) & valuation, the strategies are not expected to deviate from its investment process in different market conditions.

The investment process is multi-faceted and involves using a variety of tools to identify candidates for investment. A top-down analysis of the macro environment permeates the entire investment process, influencing sector decisions and position weights. Larger companies in resource-related sectors are followed on an on-going basis, where new ideas related to smaller, less well-known companies typically originate from management meetings, discussions with peers and sell-side analysts, as well as industry conferences and relationships. Corporate actions including asset plays, restructurings, management changes and spin-offs can also present new opportunities for investment. Given the targeted nature of the mandates, many of the more significant investment candidate businesses are already well known to the investment team. As a result, ongoing and regular meetings with company management teams are an important component to the portfolio management process whereby valuable information regarding the macro environment and industry trends are gathered which often direct research activities towards specific companies and securities.

The highest stock weights in the portfolio are dedicated to larger and typically more diversified resource companies while less significant weights tend to be assigned to smaller, single commodity and/or single property companies.

Investment Risks

Investing in these strategies involves the risk that the market value of the securities will fluctuate, sometimes rapidly and unpredictably and often in conjunction with changes in the price of underlying metals and/or bulk commodities. Investment in these strategies is subject to the risk that the investment may not perform as expected over a certain period of time and may experience monetary losses.

The strategies' main risk factors are outlined below:

In addition to general risks associated with investing in equity markets as a whole, some of the specific risks of investing in the strategy include active management risk, commodity risk, credit and counterparty risk, currency risk, economic and market events risk, equity securities risk, exchange-traded funds risk, foreign securities risk and industry or sector risk. Each of the risks listed above are further defined in Appendix A, "Glossary of Investment Risks."

Passive Equity Strategies

S&P 500 Index, S&P 400 Index, MSCI EAFE Equity Index, Wilshire 5000 Total Market Index, Russell 2000 Index

Investment Objective

The investment objective of our Index strategies is to approximate the aggregate total return of U.S. domestic equity markets or track the performance of a broad-based equity index of foreign companies' primarily in developed countries. The strategies invest in the group of equity securities that are included in the respective index. We invest primarily in common stocks and/or representative sample of the securities that are included in the Index. We may also invest in certain instruments, such as index futures, total return swaps and exchange-traded-funds (ETFs) that we believe have similar risk characteristics as securities that are included in the respective Index. The index strategies attempt to match the performance of the respective Index.

Principal Investment Strategies

The Index strategies do not perform research and analysis and do not seek to form an opinion on individual securities. Instead we attempt to fully replicate the respective index by buying shares of each company in the index according to its relative weight in the index or match the performance of the index by holding a representative sample or subset of the benchmark index referred to as an optimized portfolio. The risk characteristics of the optimized portfolio match those of the benchmark in terms of sector composition and certain other factors.

Investment Risks

All investment strategies involve some risks. Investing in our Index strategies involve risks similar to the risks of investing directly in the equity securities included in the respective Index. Investing in equity

securities involves risk that the market value of the securities will fluctuate, sometimes rapidly and unpredictably. The prices of equity securities change in response to many factors including the historical and prospective earnings of the issuer, the value of its assets and liabilities, general economic conditions, investor perceptions and market liquidity. Certain factors may cause a fund that is an index fund to track its target index less closely. For example, we may select securities that are not fully representative of the index, and the fund's transaction expenses, and the size and timing of its cash flows, may result in the fund's performance being different than that of its index. Moreover, the funds will generally reflect the performance of its target index even when the index does not perform well. In addition, for some funds, an investor will be subject to foreign securities risk. As compared to U.S. companies, there may be less publicly available information relating to foreign companies. Foreign securities may be subject to foreign taxes. The value of foreign securities is subject to currency fluctuations and adverse political and economic developments. For other funds, large-capitalization stocks as a group could fall out of favor with the market, causing the fund to underperform investments that focus on small- or medium-capitalization stocks. Larger, more established companies may be slow to respond to challenges and may grow more slowly than smaller companies. Conversely, share prices of medium and smaller sized companies can change more frequently and more dramatically than those of larger companies.

The strategies main risk factors are listed below:

Credit and counterparty risk, economic and market events risk, hedging, derivatives and other strategic transactions risk, as well as issuer risk. Each of the risks listed above are further defined in Appendix A, "Glossary of Investment Risks."

U.S. Money Market

Investment Objective

The investment objective of our U.S. Money Market strategies is to obtain maximum current income consistent with preservation of principal and liquidity. The strategies invest only in U.S. dollar denominated securities issued by U.S. and foreign companies; U.S. and foreign banks; U.S. and foreign governments; U.S. agencies, states and municipalities; and international organizations.

Principal Investment Strategies

The U.S. Money Market strategies use an active, disciplined management approach. The strategies do not sacrifice credit quality for the sake of added yield. In general, in US treasury bills at the long end of the yield curve are purchased during periods of market weakness and are sold on market strength. This results in capturing realized gains for the portfolios.

Corporate paper could be, but is not typically, purchased for a maximum maturity of three to six months. The product is used in this way to add yield. In addition, the strategies can add yield and duration with the purchase of longer maturity securities with a maximum maturity of 13 months.

The investment philosophy of the U.S. Money Market strategies is that long term outperformance comes from focusing on an active disciplined approach to yield curve management and risk containment via credit analysis and issuer selection.

The strategies hold a combination of Floating-Rate Notes, Commercial Paper, US T-Bills and Residuals, and Government (maturing in 24 months or less) and/or Corporate Short-Terms securities (maturing in 13 months or less).

Sector weights are driven by market conditions, relative spread levels, stage of the economic cycle, and credit analysis. With respect to credit and quality constraints for “investable” assets, commercial paper must have a minimum A1 rating by S&P, and a minimum P1 rating from Moody’s. Floating-rate notes, if permitted, must have a minimum A-Low rating.

Investments in the corporate names are limited to 5% per issuer (10% for overnight securities). The maximum average weighted term to maturity for the funds depends on the specific strategy.

Investment Risks

Investing in U.S. Money Market securities involves the risk that the market value of the securities will fluctuate, sometimes rapidly and unpredictably. The prices of money market securities change in response to many factors including the historical and prospective earnings of the issuer, the value of its assets, general economic conditions, investor perceptions and market liquidity.

The strategies main risk factors are listed below:

Changing distribution levels risk, fixed-income securities risk, foreign securities risk, and issuer risk. Each of the risks listed above are further defined in Appendix A, “Glossary of Investment Risks.”

Liability Driven Investment Strategies

Investment Objective

The quantitatively managed Manulife Investment Management Liability Driven Investment strategies’ fundamental investment objective is to provide returns that closely track the returns of the Manulife Investment Management Liability Driven Investment customized benchmarks by investing primarily in investment grade corporate and government guaranteed fixed income securities.

Portfolio Construction

The Manulife Investment Management Liability Driven Investment strategies are based on customized benchmarks. These customized benchmarks are notional portfolios of fixed income securities constructed to hedge the target cash flow structures of each strategy. The Target Cash Flow Structures of the strategies are established by Manulife IM (NA) using a proprietary methodology and are associated with typical pension plan profiles. The underlying demographic profiles are derived from external data and expected cash flows are projected based on assumptions representative of typical pension plans. The Target Cash Flow Structures are not expected to change frequently but are reviewed annually and may be revised by Manulife IM (NA) if necessary.

When permitted, Liability Driven Investment Strategies may also use derivatives, repurchase or reverse repurchase agreements in the portfolio construction, for the purposes of hedging, replication or income generation.

Principal risks

The strategies main risk factors are listed below:

Asset-backed and mortgage-backed securities risk, Credit risk, Interest rate risk, Liquidity risk, Prepayment risk, Securities lending risk, Substantial security holder risk, Target Liability risk, Tax risk

Each of the risks listed above are further defined in Appendix A, “Glossary of Investment Risks.”

Goals Based Investment Strategies

Investment Objective

The quantitatively managed Manulife Investment Management Goals Based Investment strategies’ fundamental investment objective is to maintain and maximize regular cash distributions through a pre-determined period and to grow such distributions over time.

The Manulife Investment Management Goals Based Investment Strategies are asset allocation strategies which under normal market conditions will invest primarily in fixed-income securities and other equity funds and/or equity securities (the “Portfolio(s)”). The Liability Driven Investment (“LDI”) management team at Manulife IM (NA) (“LDI Management Team”) may allocate investments among asset classes including, but not limited to, equities, US dollar denominated fixed income securities, cash and cash equivalents (including money market funds) as well as underlying funds that invest in such securities.

Portfolio Construction

The Portfolio(s) are based on a custom benchmark. The custom benchmark is a notional portfolio constructed to match the pay down structure of the strategy. The pay down structure of the Portfolio(s) are

established by Manulife IM (NA) and are not expected to change frequently but may be revised by Manulife IM (NA) if necessary.

The LDI Management Team first selects the asset classes and underlying funds for potential inclusion in the equity assets. Next, the LDI Management Team uses Liability Driven Investment strategies to establish the fixed income assets. In the final step, the allocation between the two asset classes is determined through dynamic asset allocation. In addition, the LDI Management Team continually monitors the economic environment and investment markets to determine if any changes are needed, and to keep the portfolios up-to-date and consistent with their respective investment policies and objectives.

When permitted, the Portfolio(s) may also use derivatives, repurchase or reverse repurchase agreements in the portfolio construction, for the purposes of hedging, replication or income generation.

Principal risks

The Portfolio(s) may invest in various underlying instruments, including securities of other investment companies that as a group hold a wide range of equity type securities. These include small, mid and large-capitalization stocks, domestic and foreign securities (including emerging market securities), and sector holdings such as healthcare and science and technology stocks. Each of the underlying funds has with its own unique investment strategy that, for example, may focus on growth stocks or value stocks or may employ a strategy combining growth and income stocks and/or may invest in derivatives, such as options on securities and futures contracts. Certain of the underlying funds focus their investment strategy on fixed-income securities, which may include investment grade and below investment grade debt securities with maturities that range from short to longer term. The fixed-income underlying funds hold various types of debt instruments, such as corporate bonds and mortgage backed, floating rate notes, government issued domestic and international securities (including emerging market debt securities).

All investment strategies involve some risks. Each Portfolio's performance depends on the LDI Management Team's skill in determining the asset class allocations, the mix of underlying funds and the performance of those underlying funds. The underlying funds' performance may be lower than the performance of the asset class which they were selected to represent. Each Portfolio is subject to the same risks as the underlying funds in which it invests, which include the following: stocks and bonds can decline due to adverse issuer, market, regulatory or economic developments; foreign investing, especially in emerging markets, has additional risks, such as currency and market volatility and political and social instability; the securities of small-capitalization companies are subject to higher volatility than larger, more established companies; and high-yield bonds are subject to additional risks, such as increased risk of default.

The Portfolio(s) main risk factors are listed below:

Asset-backed and mortgage-backed securities risk, Credit risk, Interest rate risk, Liquidity risk, Prepayment risk, Securities lending risk, Substantial security holder risk, Spend-down Risk, Tax risk

Each of the risks listed above are further defined in Appendix A, “Glossary of Investment Risks.”

VI. Disciplinary Information

There have been no reportable legal or disciplinary events against the Company or its management persons.

VII. Other Financial Industry Activities and Affiliations

As discussed above, our services are principally delivered to our affiliates. We have material arrangements with Manulife Investment Management Limited, regarding provision of personnel, equipment and facilities. The second is a service level agreement with several affiliated non-U.S. registered investment advisers, Manulife Investment Management (Hong Kong) Limited, Manulife Investment Management (Europe) Limited, Manulife Investment Management (Singapore) Pte. Ltd. and Manulife Investment Management Limited and one affiliated U.S. registered investment adviser, Manulife Investment Management (US) LLC. for the provision of fixed income dealing and trade execution for our clients.

Manulife IM (NA) is affiliated with several SEC registered and non-SEC registered investment advisers, located in both the U.S. and outside the U.S. We also are affiliated with and serve as a sub-adviser to a number of affiliated Funds. The majority of such Funds are registered under the U.S. Investment Company Act of 1940. We are deemed to be affiliated person of these Funds due to our role as their sub-adviser. Our key affiliates are as follows:

Entity	Type
John Hancock Distributors LLC	US broker-dealer
John Hancock Investment Management Distributors LLC	US broker-dealer
John Hancock Investment Management LLC	US investment adviser
John Hancock Variable Trust Advisers LLC	US investment adviser
John Hancock Life Insurance Company	US insurance company
John Hancock Life & Health Insurance Company	US insurance company
Manulife Investment Management (US) LLC	US investment adviser
Manulife Investment Management Limited	non-US investment adviser
Manulife Investment Management Distributors Inc.	non-US broker-dealer
Manulife Investment Management (Hong Kong) Limited	non-US investment adviser
Manulife Investment Management (Europe) Limited	non-US investment adviser
The Manufacturers Life Insurance Company	non-US insurance company
Manulife Financial Corporation	non-US operating insurance company
Manulife Investment Management (Singapore) Pte. Ltd.	non-US investment adviser

Manulife IM (NA) has material business relationships with some of our related persons. Often personnel from these entities work together to manage client portfolios and provide related services, including client liaison, investment monitoring, account administration, investment research and trading services.

Manulife IM (NA) provides sub-advisory services to certain U.S. registered investment companies advised by John Hancock Investment Management LLC (formerly John Hancock Advisers, LLC), John Hancock Variable Trust Advisers LLC (formerly John Hancock Investment Management Services, LLC) and certain U.S. registered insurance companies advised by John Hancock Life & Health Insurance Company (“JHLH”)

Manulife Investment Management

and John Hancock Life Insurance Company U.S.A. (“JHUSA”), which are all wholly owned subsidiaries of Manulife.

All investment management arrangements are conducted on an arms-length basis so as to neither disadvantage nor advantage other clients or related parties.

Manulife IM (NA) is related to John Hancock Investment Management Distributors LLC (formerly John Hancock Funds, LLC) and John Hancock Distributors, LLC (“JHD”), which are all U.S. registered broker-dealers and wholly-owned by Manulife Financial. John Hancock Investment Management Distributors LLC is the principal underwriter for certain U.S. registered investment companies for which Manulife IM (US) serves as sub-adviser. JHD is the principal underwriter for John Hancock Variable Insurance Trust (“JHVIT”), formerly John Hancock Trust, a U.S. open end management Investment Company for which we serve as a sub-adviser with respect to certain series of the trust.

VIII. Code of Ethics, Participation or Interest in Client Transactions and Personal Trading

Code of Ethics

Manulife IM (NA) has adopted a written Code of Ethics (the “Code”) designed to prevent and detect personal trading activities that may interfere or conflict with client interests. The Code requires that our employees adhere to the highest ethical standards and comply with applicable federal securities laws. Our employees may from time to time acquire or sell securities for their personal accounts which may also be purchased or sold for the account of clients. The Code generally requires that all transactions in securities by our Investment Access Persons and Regular Access Persons (as each term is defined in the Code) and certain household members be cleared prior to execution through compliance department processes. Personal securities transactions also are subject to quarterly reporting requirements, annual certification requirements and related compliance obligations. Regarding mutual funds, employees are required to report their transactions in the mutual funds we advise or sub-advise on a post-trade basis. Employees are also required to report any violations of the Code that come to their attention.

Clients should be aware that no set of rules can possibly anticipate or eliminate all potential conflicts of interest or ensure exemplary conduct in personal trading or all other matters, and that certain conflicts of interest exist when providing investment advice.

A copy of our Code will be provided to any client or prospective client upon request.

Participation or Interest in Client Transactions

Manulife IM (NA) generally doesn’t buy or sell securities for itself or maintain proprietary accounts. From time to time, a client portfolio may purchase a security in which a related person may have an ownership interest or a related person may purchase a security that is held in the client account. For example, our employees may incidentally hold in their own securities accounts one or more of the same securities that we also purchase or sell for clients. Due to this potential conflict of interest, personal trading by employees is substantially restricted by our Code of Ethics. Personal trading of employees and certain household members are monitored by the Compliance department.

MLI and certain of its subsidiaries distribute investment products for which they may receive management, advisory and related fees for services provided. Such products and relationships are disclosed to clients in offering documents in accordance with applicable laws, rules and regulations governing the sale of such products. Certain MLI subsidiaries are also clients of Manulife IM (NA) and we may from time to time advise other clients to buy securities which are held by related clients and vice versa.

IX. Brokerage Practices

Brokerage Discretion

Generally, clients grant us full discretionary authority over securities purchases and sales, subject to the client's investment objectives, guidelines and restrictions. We place orders for the purchase and sale of securities with the primary objective of obtaining the most favorable overall results for the client. All investment objectives, guidelines and restrictions are established by agreement between the Company and the client at the time the account is established and generally may only be amended by mutual agreement.

Approved Trading Counterparties

Manulife IM (NA) maintains and periodically updates a list of approved trading counterparties that are used to facilitate transactions. Traders are only allowed to execute securities transactions through approved broker-dealers/counterparties. A request to add a new broker-dealer/counterparty may be initiated at any time and must flow through the proper approval process.

Selection of Brokers, Dealers, and Counterparties

When placing orders for purchase and sale of securities and/or selecting trading counterparties to effect these transactions, we seek prompt execution of orders at the most favorable prices reasonably obtainable. We will consider a number of factors when selecting counterparties to implement transactions, price, dealer spread or commissions (if any), including the financial strength, reputation and stability of the counterparty, the efficiency with which the transaction is effected, the size of the transaction, the availability of the counterparty to stand ready to execute possibly difficult transactions in the future, and other matters involved in the receipt of brokerage and research services.

In seeking best execution, portfolio managers take reasonable care to obtain the best available price for the client in the relevant market at the time of the transaction. The determinative factor is not always the lowest possible commission price but whether the transaction represents the best qualitative execution for the client's account. In selecting a broker, dealer or trading venue, traders consider the full range of available trading platforms in seeking best execution.

Affiliated Brokers

Manulife IM (NA) does not execute trades or otherwise implement trading strategies through an intermediary that is an affiliate.

Cross Transactions

Manulife IM (NA) does not effect agency cross-transactions, nor do we effect cross trades between clients and our affiliates.

Best Execution

Our fundamental policy is to comply with our fiduciary duty to clients and seek to obtain the most advantageous execution terms reasonably available under the circumstances (Best Execution) with respect to trade orders placed on behalf of our clients with various dealers.

Best Execution is a process and we therefore regularly monitor our trade executions to assess our effectiveness and that of the dealers we use. In seeking Best Execution for our clients, we consider a number of elements, such as price, speed of execution, certainty of execution and the overall cost of the transaction.

Trading for our clients can only be conducted through approved dealers. We perform a thorough review of a dealer's financial strength and regulatory history before the dealer can be qualified for use. The factors considered when selecting a broker-dealer on any given trade include their ability to source liquidity, provide anonymity; willingness to commit capital, trading experience and reputation.

We negotiate a commission rate schedule with broker-dealers in advance based on the various types of trade execution that we expect we will require for our clients. This negotiation takes into consideration the overall level of services provided by the dealers. Under this approach, we periodically may classify different brokers in different categories based on execution abilities, the quality of research, brokerage services, block trading capability, speed and responsiveness, or other services provided by the brokers. Some examples of these categories may include, without limitation, full-service brokers, alternative trading systems, client commission and execution-only brokers.

Research and Other Soft Dollar Benefits

Our commission arrangements with broker dealers are in the form of bundled services where the dealer provides us with their proprietary research along with trade execution services, and commission sharing arrangements where the execution and third-party research commission costs are unbundled. The dealer's proprietary research services typically include sector and company research reports, economic reports, analyst calls, meetings with company management, analyst meetings, sales calls and financial models. We also use third party research services provided to us by third party vendors. We obtain these research services using client commissions in a manner designed to comply with applicable securities regulations. While the commissions on these trade executions are paid by our clients' accounts, the research services are provided to us, by third party vendors and thus benefit our clients indirectly, through their impact on

investment performance. We request dealers to accrue cash balances for payment of qualified third-party research services through client commission arrangements. Given the diversity of the investment styles in our firm, it is difficult to link a particular transaction directly to the research services obtained through client commission arrangements. Therefore, some research services benefit all our clients as a whole, while others primarily benefit a portion of our clients. As a result of these difficulties we do not track benefits from any particular research service to a specific client account.

Manulife IM (NA) considers three factors with respect to all third-party research and execution services received through soft dollars:

- Whether the product or service is eligible research or brokerage under SEC rules and regulations;
- Whether an eligible product or service actually provides “lawful and appropriate assistance” in the performance of our investment decision-making responsibilities.
- Whether the amount of the commission paid is reasonable in light of the value of the product or service provided by the broker-dealer (viewed in terms of the particular transaction or our overall responsibilities with respect to our client accounts).

Directed Brokerage

Manulife IM (NA) does not engage in directed brokerage arrangements, unless instructed to do so by a client.

Trade Aggregation

Because investment decisions often affect more than one client, we frequently will attempt to acquire or dispose of the same security for more than one client at the same time. Manulife IM (NA), to the extent permitted by applicable law, regulations and advisory contracts, may aggregate purchases and sales of securities on behalf of its various clients for which it has discretion, provided that in our opinion, all client accounts are treated equitably and fairly and that block trading will result in a more favorable overall execution. Trades will not be combined when a client has directed transactions to a particular broker-dealer or when we determine that combined orders would not be efficient or practical.

Review of Accounts

Internal Review of Client Accounts

Each client account is managed by a Manulife IM (NA) investment team which is assigned primary responsibility for the day-to-day management and ongoing monitoring of the client account. The portfolio management team's continuous review of a client account includes the review and appropriateness of portfolio holdings and transactions in light of the client account's investment objective, guidelines and restrictions within the context of market conditions.

The client accounts are also periodically reviewed by Manulife IM (NA)'s designated Chief Investment Officer, the Performance team, and the Investment Risk team. In all cases, accounts are also subject to review by compliance personnel, who monitor account trading on a daily basis utilizing the Firm's order management system that incorporates pre-trade, post-trade, and batch compliance testing across many account restrictions.

Client Reporting

On a quarterly and/or monthly basis, Manulife IM (NA) furnishes to our clients, or their agents, summary reports of portfolio transactions that were executed during the relevant period, portfolio holdings, characteristics, strategies, performance information, and other requested information about compliance matters. Meetings with clients are held as agreed upon with the client and generally occur annually.

X. Client Referrals and Other Compensation

From time to time, we may enter into an agreement which provides cash compensation to solicitors who secure clients on our behalf. Generally, such an agreement:

1. provides the solicitation activities to be engaged in by the solicitor on our behalf and the compensation to be received therefrom;
2. contains an undertaking by the solicitor to perform their duties under the agreement in a manner consistent with our instructions and the provisions of regulatory rule;
3. Requires that the solicitor, at the time of any solicitation activities for which compensation is paid or to be paid by us, provide the client with a current copy of our Form ADV Part 2 and this solicitation disclosure statement.

Manulife IM (NA) has a written solicitation agreement with its affiliate, Manulife Investment Management (US) LLC ("Manulife IM (US)"), to act as solicitor and secure clients on behalf of Manulife IM (NA). Manulife IM (US) receives anywhere between five (5) to twenty-five (25) percent of the fee paid directly to us from a client.

XI. Custody

Manulife IM (NA) does not have custody over client's investment assets.

XII. Investment Discretion

Clients retain MIM (NA) on a discretionary and non-discretionary basis. Clients that retain us on a discretionary basis grant us such authority by way of their investment management agreement with us. As such, we have the authority to supervise and direct the investments of and for those clients' account without prior consultation with the client. Pursuant to this discretionary authority, we determine which securities are bought and sold for the account, the total amount of the purchases and sales, the brokers or dealers through which transactions are executed and the commission rates paid to effect the transactions, as applicable. The client may restrict or prohibit transactions in certain types of securities or direct that transactions be effected through specific brokers or dealers.

Some clients retain us on a non-discretionary basis, requiring that portfolio transactions be discussed in advance and executed at the client's direction.

XIII. Voting Client Securities

Under our discretionary management agreements, we generally have the authority to vote proxies related to securities held by a client in a manner that is in the best interest of the client. We believe that our proxy voting policies and procedures are reasonably designed to ensure that proxy voting is conducted in the best interest of clients, and in accordance with our fiduciary duties, applicable rules under the Investment Advisers Act of 1940, and fiduciary standards and responsibilities applicable to our ERISA clients. In the ordinary course, proxies generally will be voted to maximize the monetary value of each portfolio's holdings. We believe that this approach is in the best interests of our clients.

Manulife IM (NA) has contracted with an independent third-party proxy voting service provider to vote clients' proxies according to our policies, which incorporate that provider's proxy voting recommendations.

Manulife IM (NA) has engaged its proxy voting service provider to:

1. Research and make voting recommendations;
2. Ensure proxies are voted and submitted in a timely manner;
3. Perform other administrative functions of proxy voting;
4. Maintain records of proxy statements and provide copies of such proxy statements promptly upon request;
5. Maintain records of votes cast; and
6. Provide recommendations with respect to proxy voting matters in general.

Each portfolio manager has the discretion to deviate from any recommendation provided by the proxy voting service provider on general policy issues or specific proxy proposals, in accordance with our proxy policies and procedures that may be in effect from time to time.

We may also retain other proxy voting services in place of, or in addition to our current proxy voting service provider from time-to-time without further notice to clients.

Clients may obtain a copy of our proxy voting policies and procedures, a summary of the proxy voting service provider policies and procedures, and information about how we voted proxies during the past fiscal year by contacting Christopher Walker at Christopher.Walker@manulife.com.

XIV. Financial Information

Manulife IM (NA) has no financial obligation that impairs its ability to meet contractual and fiduciary responsibilities to clients and has not been the subject of a bankruptcy proceeding.

APPENDIX A

Glossary of Investment Risk

- **Active management risk:** The subadvisor's investment strategy may fail to produce the intended result.
- **Changing distribution levels risk:** The distribution amounts paid by the fund generally depend on the amount of income and/or dividends received by the fund's investments. As a result of market, interest rate and other circumstances, the amount of cash available for distribution by the fund and the fund's distribution rate may vary or decline. The risk of such variability is accentuated in currently prevailing market and interest rate circumstances.
- **Commodity risk:** The market price of commodity investments may be volatile due to fluctuating demand, supply disruption, speculation and other factors
- **Convertible securities risk:** The market values of convertible securities tend to decline as interest rates increase and, conversely, to increase as interest rates decline. In addition, as the market price of the underlying common stock declines below the conversion price, the price of the convertible security tends to be increasingly influenced more by the yield of the convertible security.
- **Credit and counterparty risk:** The issuer or guarantor of a fixed-income security, the counterparty to an over-the-counter derivatives contract or a borrower of a fund's securities may be unable or unwilling to make timely principal, interest or settlement payments, or otherwise honor its obligations. Funds that invest in fixed-income securities are subject to varying degrees of risk that the issuers of the securities will have their credit rating downgraded or will default, potentially reducing a fund's share price and income level.
- **Credit risk.** The issuer or guarantor of a fixed-income security, the counterparty to an over-the-counter derivatives contract or a borrower of a client's securities, is unable or unwilling to make timely principal, interest or settlement payments, or otherwise to honor its obligations. Funds that invest in fixed-income securities are subject to varying degrees of risk that the issuers of the securities will have their credit rating downgraded or will default, potentially reducing a fund's share price and income level. U.S. government securities are subject to varying degrees of credit risk depending upon the nature of their support.
- **Currency risk:** Fluctuations in exchange rates may adversely affect the U.S. dollar value of a fund's investments. Currency risk includes both the risk that currencies in which a fund's investments are traded, or currencies in which a fund has taken an active position, will decline in value relative to the U.S. dollar.
- **Derivatives risk.** Hedging and other strategic transactions increase the volatility of an account and, if the transaction is not successful, could result in a significant loss to a client account. Counterparty risk, liquidity risk (i.e., the inability to enter into closing transactions) and risk of disproportionate loss are the principal risks of engaging in transactions involving futures contracts, options, swaps and foreign currency forward contracts. Counterparty risk does not apply to exchange-traded options. Foreign currency forward contracts are also subject to foreign currency risk. The use of derivative instruments (such as options, futures and swaps) could produce disproportionate gains or losses, more than the principal amount invested. Investing in derivative instruments involves risks different from, or possibly greater than, the risks associated with investing directly in securities and other traditional investments and, in a down market, could become harder to value or sell at a fair price.
- **Distressed investment risk.** Many distressed investments, including loans, loan participations, bonds, notes and non-performing and sub-performing mortgage loans, are not publicly traded and involve a substantial degree of risk.
- **Economic and market events risk:** Events in the financial markets have resulted, and may continue to result, in an unusually high degree of volatility in the financial markets, both domestic and foreign. In addition, reduced liquidity in credit and fixed-income markets may adversely affect issuers worldwide.
- **Emerging markets risk:** The risks of investing in foreign securities are greater for investments in emerging markets. Emerging market countries may experience higher inflation, interest rates and unemployment as well as greater social, economic, regulatory and political uncertainties than more developed countries.

- **Equity risk.** The value of a company's equity securities is subject to changes in the company's financial condition, and overall market and economic conditions.
- **Equity securities risk:** The value of a company's equity securities is subject to changes in the company's financial condition, and overall market and economic conditions.
- **Exchange-traded funds risk:** Owning an ETF generally reflects the risks of owning the underlying securities it is designed to track.
- **Exchange-traded notes risk:** Similar to ETFs, owning an ETN generally reflects the risks of owning the assets that comprise the underlying market benchmark or strategy that the ETN is designed to reflect. ETNs also are subject to issuer and fixed-income risk.
- **Fixed-income securities risk:** Fixed-income securities are affected by changes in interest rates and credit quality. A rise in interest rates typically causes bond prices to fall. The longer the average maturity of the bonds held by the fund, the more sensitive the fund is likely to be to interest-rate changes. There is the possibility that the issuer of the security will not repay all or a portion of the principal borrowed and will not make all interest payments.
- **Foreign securities risk:** As compared to U.S. companies, there may be less publicly available information relating to foreign companies. Foreign securities may be subject to foreign taxes. The value of foreign securities is subject to currency fluctuations and adverse political and economic developments.
- **Fund of funds risk:** The fund is subject to the performance of the underlying funds in which it invests.
- **Greater China risk:** Investments in the Greater China region are subject to special risks, such as less developed or less efficient trading markets, restrictions on monetary repatriation and possible seizure, nationalization or expropriation of assets. In particular, investment in Taiwan could be adversely affected by its relationship with China, and Hong Kong and Chinese markets could be hurt significantly by adverse government actions. A small number of companies and industries represent a relatively large portion of the Greater China market as a whole.
- **Hedging, derivatives and other strategic transactions risk:** Hedging and other strategic transactions may increase the volatility of a fund and, if the transaction is not successful, could result in a significant loss to a fund. The use of derivative instruments could produce disproportionate gains or losses, more than the principal amount invested. Investing in derivative instruments involves risks different from, or possibly greater than, the risks associated with investing directly in securities and other traditional investments and, in a down market, could become harder to value or sell at a fair price. The following is a list of certain derivatives and other strategic transactions in which the fund may invest and the main risks associated with each of them:
 - **Credit default swaps** Counterparty risk, liquidity risk (i.e., the inability to enter into closing transactions), interest-rate risk, risk of default of the underlying reference obligation and risk of disproportionate loss are the principal risks of engaging in transactions involving credit default swaps.
 - **Foreign currency forward contracts** Counterparty risk, liquidity risk (i.e., the inability to enter into closing transactions), foreign currency risk and risk of disproportionate loss are the principal risks of engaging in transactions involving foreign currency forward contracts.
 - **Futures contracts** Counterparty risk, liquidity risk (i.e., the inability to enter into closing transactions) and risk of disproportionate loss are the principal risks of engaging in transactions involving futures contracts.
 - **Interest-rate swaps** Counterparty risk, liquidity risk (i.e., the inability to enter into closing transactions), interest-rate risk and risk of disproportionate loss are the principal risks of engaging in transactions involving interest-rate swaps.
 - **Options** Counterparty risk, liquidity risk (i.e., the inability to enter into closing transactions) and risk of disproportionate loss are the principal risks of engaging in transactions involving options. Counterparty risk does not apply to exchange traded options.
 - **Swaps** Counterparty risk, liquidity risk (i.e., the inability to enter into closing transactions), interest-rate risk, settlement risk, risk of default of the underlying reference obligation and risk of disproportionate loss are the principal risks of engaging in transactions involving swaps.

- **High portfolio turnover risk:** Actively trading securities can increase transaction costs (thus lowering performance) and taxable distributions.
- **Illiquid investments risk.** The difficulties and delays associated with such transactions could result in the inability to realize a favorable price upon disposition, and at times might make disposition of such securities impossible. In addition, an account may be unable to sell other illiquid investments when it desires to do so, resulting in obtaining a lower price or being required to retain the investment.
- **Index management risk:** Certain factors may cause a fund that is an index fund to track its target index less closely. For example, a subadvisor may select securities that are not fully representative of the index, and the fund's transaction expenses, and the size and timing of its cash flows, may result in the fund's performance being different than that of its index. Moreover, the fund will generally reflect the performance of its target index even when the index does not perform well.
- **Industry or sector risk:** Because the fund may focus on one or more industry or sector of the economy, its performance depends in large part on the performance of those sectors or industries. As a result, the value of your investment may fluctuate more widely than it would in a fund that is diversified across industries and sectors.
- **Inflation-indexed debt securities risk.** Inflation-indexed debt securities are subject to the effects of changes in market interest rates caused by factors other than inflation (real interest rates). There can be no assurance that the inflation index used will accurately measure the real rate of inflation in the prices of goods and services.
- **Initial public offerings risk:** IPO shares may have a magnified impact on fund performance and are frequently volatile in price. They can be held for a short period of time causing an increase in portfolio turnover.
- **Interest rate risk.** A rise in interest rates typically causes bond prices to fall. The longer the average maturity of the bonds held by an account or fund, the more sensitive it is likely to be to interest-rate changes. The yield earned by an account or fund will vary with changes in interest rates. Changes in interest rates cause adverse effects and volatility in equity prices.
- **Investment company securities risk:** The fund bears its own expenses and indirectly bears its proportionate share of expenses of the underlying funds in which it invests.
- **Issuer risk:** An issuer of a security may perform poorly and, therefore, the value of its stocks and bonds may decline. An issuer of securities held by the fund could default or have its credit rating downgraded.
- **Large company risk:** Large-capitalization stocks as a group could fall out of favor with the market, causing the fund to underperform investments that focus on small- or medium-capitalization stocks. Larger, more established companies may be slow to respond to challenges and may grow more slowly than smaller companies. For purposes of the fund's investment policies, the market capitalization of a company is based on its market capitalization at the time the fund purchases the company's securities. Market capitalizations of companies change over time.
- **Leverage risk.** The use of leverage magnifies both the favorable and unfavorable effects of price movements in the investments made by an account fund. To the extent the account or fund is leveraged in its investment operations, it will be subject to substantial risk of loss.
- **Lifecycle risk.** There is no guarantee that the adviser will correctly predict the market or economic conditions and, as with other fund investments, you could lose money even if a fund is at or close to its designated retirement year or in its post-retirement stage
- **Liquidity risk:** Exposure exists when trading volume, lack of a market maker or legal restrictions impair the ability to sell particular securities or close derivative positions at an advantageous price.
- **Loans (bank loans, floating rate loans, and loan participations) risk.** Investing in loans involves special types of risks, including credit risk, interest-rate risk, liquidity risk and the risks of being a lender.
- **Lower-rated fixed-income securities risk and high-yield securities risk:** Lower-rated fixed-income securities and high-yield fixed-income securities (commonly known as "junk bonds") are subject to greater credit quality risk and risk of default than higher-rated fixed-income securities. These securities may be considered speculative and the value of these securities can be more volatile due to increased sensitivity to adverse issuer, political, regulatory, market or economic developments and can be difficult to resell.
- **Market disruption and geopolitical risk.** Events in the financial markets have resulted, and continue to result, in an unusually high degree of volatility in the financial markets, both domestic and foreign. In addition, reduced liquidity in credit and fixed-income markets adversely affects issuers worldwide.

- **Medium and smaller company risk:** The prices of medium and smaller company stocks can change more frequently and dramatically than those of large company stocks. For purposes of the fund's investment policies, the market capitalization of a company is based on its market capitalization at the time the fund purchases the company's securities. Market capitalizations of companies change over time.
- **Medium company risk.** The prices of medium company stocks can change more frequently and dramatically than those of large company stocks.
- **Mortgage-backed and asset-backed securities risk:** Different types of mortgage-backed securities and asset-backed securities are subject to different combinations of prepayment, extension, interest-rate and/or other market risks.
- **Municipal bond risk.** Municipal bond prices can decline due to fiscal mismanagement or tax shortfalls. Revenue bond prices can decline if related projects become unprofitable. An account or fund may hold bonds that are insured as to principal and interest payments. Because the value of an insured municipal bond depends in part on the claims-paying ability of the insurer, an account or fund would be subject to the risk that the insurer is unable to pay claims filed pursuant to the coverage. An account or fund may hold several investments covered by one insurer, which would increase the exposure to the claims-paying ability of that insurer. In addition, insurance does not guarantee the market value of the insured obligation.
- **Natural resources risk.** The natural resources industry can be significantly affected by events relating to international political and economic developments, energy conservation, the success of exploration projects, commodity prices, and taxes and other governmental regulations.
- **Non-diversified risk:** Overall risk can be reduced by investing in securities from a diversified pool of issuers and is increased by investing in securities of a small number of issuers. Investments in a non-diversified fund may magnify the fund's losses from adverse events affecting a particular issuer.
- **Prepayment risk.** Prepayment risk occurs when the issuer of a security can repay principal prior to the security's maturity. Securities subject to prepayment risk can offer less potential for gains when the credit quality of the issuer improves.
- **Real estate securities risk.** Investing in securities of companies in the real estate industry subjects an account or fund to the risks associated with the direct ownership of real estate. Real Estate Investment Trusts ("REITs") involve additional risk factors including poor performance by a REIT's manager, changes to the tax laws, and failure by the REIT to qualify for tax-free distribution of income or exemption under the Investment Company Act of 1940.
- **S&P 500 Index risk:** An investment in the fund involves risks similar to the risks of investing directly in the equity securities included in the S&P 500 Index.
- **Sector investing risk.** Where an account or fund focuses on a single sector of the economy, its performance depends in large part on the performance of that sector. As a result, the value of investments could fluctuate more widely than it would in an account or fund that is diversified across sectors.
- **Short sales risk.** Short sales involve costs and risk. A borrower of securities must pay the lender interest on the security it borrows, and the borrower will lose money if the price of the security increases between the time of the short sale and the date when the borrower replaces the borrowed security.
- **Small company risk.** Stocks of smaller companies are more volatile and can be less liquid than stocks of larger companies.
- **Special risks related to preferred securities.** Generally, preferred security holders have no voting rights with respect to the issuing company unless preferred dividends have been in arrears for a specified number of periods, at which time the preferred security holders have the right to elect a number of directors to the issuer's board. Generally, once all the arrearages have been paid, the preferred security holders no longer have voting rights. In certain varying circumstances, an issuer of preferred securities redeems the securities prior to a specified date. For instance, for certain types of preferred securities, a redemption could be triggered by a change in federal income tax or securities laws. As with call provisions, a redemption by the issuer negatively impacts the return of the security held. Preferred securities can include provisions that permit the issuer, at its discretion, to defer distributions for a stated period without any adverse consequences to the issuer. Preferred securities are subordinated to bonds and other debt instruments in a company's capital structure in terms of priority to corporate income and liquidation payments, and therefore will be subject to greater credit risk

than more senior debt instruments. Preferred securities are typically substantially less liquid than many other securities, such as common stocks or U.S. government securities.

- **Spend-down risk:** Spend-down risk occurs in certain goal-based strategies or self-liquidating strategies (the “Portfolio(s)”) which are designed to maintain and maximize regular cash distributions through a pre-established period. The Portfolio(s)’ distributions are expected to result in a significant reduction in fund assets over time, which could result in an increase to the Portfolio(s)’ expenses as fixed fund expenses are spread over a smaller asset base. In order to generate sufficient cash for distributions, the fund may sell securities at times when it would not otherwise do so, which may result in a loss to the Portfolio(s). These transactions may result in higher portfolio turnover; accelerate the realization of taxable income if sales of securities resulted in capital gains or other income and increase transaction costs.
- **State/region risk.** Investing heavily in any one state or region increases exposure to losses in securities of that state’s or region’s issuers.
- **State-specific risk.** Where an account or fund invests mainly in bonds from a single state, its performance is affected by local, state and regional factors. These factors include economic or political changes, tax base erosion, state constitutional limits on tax increases, budget deficits and other financial difficulties, and changes in the credit ratings assigned to the state’s municipal issuers.
- **Target allocation risk.** From time to time, one or more of the underlying funds of target allocation accounts experience relatively large redemptions or investments due to reallocations or rebalancing of the assets of a portfolio, which could affect the performance of the underlying funds and, therefore, the performance of a fund.
- **Target Liability risk:** The return on its investments in one or a combination of the Liability Driven Investment strategies may not perfectly match the return of an investor’s (such as a pension plan’s) overall liabilities due to reasons that may include, but not be limited to:
 - the Liability Driven Investment strategies’ benchmarks are based on a number of assumptions which are not necessarily identical to an investor’s circumstances. These underlying assumptions include, but are not limited to, the plan’s underlying demographic profile, the underlying plan’s provisions, economic assumptions and, consequently, the underlying expected cash flows;
 - the investor’s target measure (“**Target Measure**”) used to allocate assets within each Liability Driven Investment strategy (e.g. the target duration, expected liability cash flows or other actuarial input) may be based on a sub-group of the plan’s liabilities (e.g. retirees);
 - the amount invested in a Liability Driven Investment strategy may be higher or lower than the market value of the investor’s plan liability;
 - the Liability Driven Investment strategies are constructed assuming liability cash flows designed to mimic average pension plan profiles, which may not reflect an investor’s circumstances;
 - Manulife IM (NA) aims to hedge the interest rate sensitivity of the present value of the fund’s assumed projected liability cash flows. Although this hedging strategy aims to reduce the long-term funding risk of a pension plan, it does not specifically hedge liabilities based on any actuarial valuation method, including going-concern, funding or accounting valuation methods;
 - the experience of a pension plan, including but not limited to mortality, turnover, salary increases, inflation and expenses, may differ from actuarial assumptions used by the plan’s actuary to value the plan’s liabilities. These actuarial assumptions are reflected in the investor’s Target Measure used to allocate assets within each Liability Driven Investment strategy;
 - the pension plan provisions, actuarial assumptions and actuarial valuation methods may be changed over time by the plan’s actuary;
 - the projected liability cash flows are usually longer than 30 years, whereas the bond market has limited investment opportunities with maturities longer than 30 years;
 - the Liability Driven Investment strategies include exposure to credit risks and, consequently, is subject to changes in credit spreads and defaults, whereas pension plan liabilities are not directly subject to these risks; and
 - the Liability Driven Investment strategies are subject to client transactions and/or rebalancing, whereas liabilities are not. The liability driven strategy is applied by Manulife IM (NA) at the investment fund or separate account level in accordance with the investment objectives, guidelines and restrictions. These strategies do not take into consideration the specifics of the investor (though

Manulife Investment Management

an investor can additionally contract to provide discretionary authority to manage the allocation between the Liability Driven Investment strategies). It is strongly recommended that an investor seek the advice of a pension or investment consultant to establish an appropriate asset allocation among these funds. Unless Manulife IM (NA) and/or its affiliates are granted discretionary authority as to asset allocation, Manulife IM (NA) shall not be responsible if inappropriate asset allocation is made by the investor.